



I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 8-19-04 Signature: Maura A. Gallagher
(Maura A. Gallagher)

Docket No.: SION-P02-006
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Miller et al.

Application No.: 10/824674

Confirmation No.: 8081

Filed: April 14, 2004

Art Unit: 2853

For: PANCAKE SPECTROMETER

Examiner: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

A copy of each reference on the PTO/SB/08 is attached with the exception of the U.S. Patent references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent,


publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. SION-P02-006. A duplicate copy of this paper is enclosed.

Dated: August 19, 2004

Respectfully submitted,

By 
Agnes S. Lee

Registration No.: 46,862
ROPES & GRAY LLP
One International Place
Boston, Massachusetts 02110-2624
(617) 951-7000
(617) 951-7050 (Fax)
Attorneys/Agents For Applicant



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known		
			Application Number	10/824674	
			Filing Date	April 14, 2004	
			First Named Inventor	Raanan A. Miller	
			Art Unit	2853	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	3	Attorney Docket Number	SION-P02-006

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		2,615,135	10/21/52	Glenn, Jr., W.E.	
		2,818,507	12/31/57	Britten, R.J.	
		2,919,348	12/29/59	A. Bierman	
		3,511,986	05/12/70	P.M. Llewellyn	
		3,621,240	11/15/71	Cohen, et al.	
		3,931,589	01/06/76	Aisenberg, et al.	
		4,019,989	04/26/77	Hazewindus, et al.	
		4,025,818	05/24/77	Giguere, et al.	
		4,136,280	01/23/79	Hunt, et al.	
		4,201,921	05/06/80	McCorkle	
		4,315,153	02/09/82	Vahrenkamp	
		4,517,462	05/14/85	Boyer, et al.	
		4,761,545	08/02/88	Marshall, et al.	
		4,931,640	06/05/90	Marshall, et al.	
		5,019,706	05/28/91	Allenmann, et al.	
		5,298,745	03/29/94	Kernan, et al.	
		5,479,815	01/02/96	White, et al.	
		5,508,204	04/16/96	Norman	
		5,654,544	08/05/97	Dresch	
		5,801,297	09/01/98	Mifsud, et al.	
		5,838,003	11/17/98	Bertsch, et al.	
		6,066,848	05/23/00	Kassel, et al.	
		6,107,624	Aug-00	Doring, et al.	
		6,124,592	09/26/00	Spangler	
		6,180,414	01/30/01	Katzman	
		6,323,482	11/17/01	Clemmer, et al.	
		6,495,823	12/17/02	Miller, et al.	
		6,504,149	01/07/03	Guevremont, et al.	
		6,540,691	04/01/03	Philips	
		6,618,712	09/09/03	Parker, et al.	
		6,621,077	9/16/03	Guevremont et al.	
		6,680,203	Jan-04	Dasseaux et al.	
		US2001/0030285 A1	10/18/01	Miller et al.	
		US2002/0070338 A1	06/13/02	Loboda	
		US2002/0134932 A1	09/26/02	Guevremont, et al.	
		US2003/0020012	Jan-03	Guevremont, et al.	
		US2003/0038235	Feb-03	Guevremont, et al.	
		US2003/0089847 A1	05/15/03	Guevremont, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	WO 01/08197 A1	02/01/01	The Charles Stark Draper Lab		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/824674
				Filing Date	April 14, 2004
				First Named Inventor	Raanan A. Miller
				Art Unit	2853
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	SION-P02-006

	B2	WO 01/22049 A2	03/29/01	Haley, L., et al.		
	B3	WO 01/35441 A1	05/17/01	The Charles Stark Draper Lab		
	B4	WO 01/69220 A2	09/20/01	National Research Council Canada		
	B5	WO 01/69647 A2	09/20/01	National Research Council Canada		
	B6	WO 02/071053 A2	09/12/02	The Charles Stark Draper Lab		
	B7	WO 02/083276 A1	10/24/02	The Charles Stark Draper Lab		
	B8	WO 03/005016 A1	1/16/03	Sionex Corporation		
	B9	WO 03/015120 A1	2/20/03	Sionex Corporation		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	C1	"A Micromachined Field Driven Radio Frequency-Ion Mobility Spectrometer for Trace Level Chemical Detection," A Draper Laboratory Proposal Against the "Advanced Cross-Enterprise Technology Development for NASA Missions," Solicitation, NASA NRA 99-OSS-05.			
	C2	BARNETT, D.A. et al., "Isotope Separation Using High-Field Asymmetric Waveform Ion Mobility Spectrometry," Nuclear Instruments & Methods in Physics Research (2000), pp 179-185, 450(1).			
	C3	BASILE, F., "A Gas Sample Pre-concentration Device Based on Solid Phase Microextraction (SPME) and Temperature Programmed Desorption (TPD)," Instrumentation Sci. Tech., (2003), pp 155-164, 31(2).			
	C4	CARNAHAN, B. et al., "Field Ion Spectrometry – A New Technology for Cocaine and Heroin Detection," SPIE, (1997), pp 106-119, 2937.			
	C5	DEMIREV, P.A., et al., "Microorganism Identification by Mass Spectrometry and Protein Database Searches, (1999), pp 2732-2738, 74(14).			
	C6	DEMIREV, P.A., et al., "Tandem Mass Spectrometry of Intact Proteins for Characterization of Biomarkers from Bacillus cereus T spores," Analytical Chem., (2001), pp 5725-5731, 73(23).			
	C7	EICEMAN, G.A., et al., "Miniature radio-frequency mobility analyzer as a gas chromatographic detector for oxygen-containing volatile organic compounds, pheromones, and other insect attractants," J. Chromatography, (2001), pp 205-217, 917.			
	C8	ELHANY, E., et al., "Detection of Specific Bacillus anthracis Spore Biomarkers by Matrix-Assisted Laser Desorption / Ionization Time-Of-Flight Mass Spectrometry," Rapid Commun. Mass. Spectrom., (2001), pp 2110-2116, 15(22).			
	C9	FOX, A., et al., "Determination of Carbohydrate Profiles of Bacillus anthracis and Bacillus cereus Including Identification of O-Methyl Methylpentoses Using Gas Chromatography-Mass Spectrometry," J. Clin. Microbiol. (1993) pp 887-894, 31(4).			
	C10	GUEVREMONT, R. et al., "Atmospheric Pressure Ion Focusing in a High-Field Asymmetric Waveform Ion Mobility Spectrometer," Review of Scientific Instruments, (1999), pp 1370-1383, 70(2).			
	C11	GUEVREMONT, R. et al., "Calculation of Ion Mobilities From Electrospray Ionization High			

Examiner Signature	Date Considered
--------------------	-----------------

Substitute for form 1449A/B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Application Number	10/824674	
			Filing Date	April 14, 2004	
			First Named Inventor	Raanan A. Miller	
			Art Unit	2853	
			Examiner Name	Not Yet Assigned	
Sheet	3	of	3	Attorney Docket Number	SION-P02-006

		Field Asymmetric Waveform Ion Mobility Spectrometry Mass Spectrometry," Journal of Chemical Physics, (2001), pp 10270-10277, 114(23).	
	C12	HATHOUT, Y., et al., "Identification of Bacillus Spores by Matrix-Assisted Laser Desorption Ionization Mass Spectrometry," Appl. Environ Microbiol. (1999), pp 4313-4319, 65(10).	
	C13	JAVAHERY, G. et al., "A Segmented Radiofrequency-Only Quadrupole Collision Cell for Measurements of Ion Collision Cross Section on a Triple Quadrupole," Mass Spectrometer, J. Am. Soc. Mass. Spectrom., (1997), pp 697-702, 8.	
	C14	KRISHNAMURTHY, T., et al., "Liquid Chromatography/Microspray Mass Spectrometry for Bacterial Investigations," (1999), pp 39-49, 13.	
	C15	KRYLOV, E.V., "A Method of Reducing Diffusion Losses in a Drift Spectrometer," Technical Physics, (1999), pp 113-16, 4d(1).	
	C16	KRYLOV, E.V., "Pulses of Special Shapes Formed on a Capacitive Load," Instruments and Experimental Techniques, (1997), pp 628, 40(5).	
	C17	MILLER, R.A. et al., "A MEMS Radio-Frequency Ion Mobility Spectrometer for Chemical Agent Detection," (June 2000) Proceedings of the 2000 Solid State Sensors and Actuators Workshop, Hilton Head, SC.	
	C18	MILLER, R.A. et al., "A MEMS radio-frequency ion mobility spectrometer for chemical vapor detection," Sensors and Actuators, (2001), pp 301-12, A91.	
	C19	MILLER, R.A. et al., "A Novel Micromachined High-Field Asymmetric Waveform-Ion Mobility Spectrometer," Sensors and Actuators B, (2000) pp 300-306, B67 (3).	
	C20	MOWRY, C., et al., "Rapid Detection of Bacteria with Miniaturized Pyrolysis-Gas Chromatographic Analysis," Proc. Of SPIE, (2001), pp 83-90, 475.	
	C21	PHILLIPS, M., "Breath tests in medicine," Scientific American, (1992), pp 74-79, 267(1)	
	C22	PHILLIPS, M., "Method for the Collection and Assay of Volatile Organic Compounds in Breath," Analytical Biochemistry, (1997), pp 272-278, 247.	
	C23	PILZECKER, P. et al., "On-Site Investigations of Gas Insulated Substations Using Ion Mobility Spectrometry for Remote Sensing of SF6 Decomposition," IEEE, (2000), pp 400-403.	
	C24	RIEGNER, D.E. et al., "Qualitative Evaluation of Field Ion Spectrometry for Chemical Warfare Agent Detection," Proceedings of the ASMS Conference on Mass Spectrometry and Allied Topics (June, 1997), pp 473A-473B.	
	C25	SCHNEIDER, A. et al., "High Sensitivity GC-FIS for Simultaneous Detection of Chemical Warfare Agents Mine," Safety Appliances Co., Pittsburgh, PA, USA, (2000), AT-Process, pp 124-136, 5(3,4), CODEN: APJCFR ISSN: 1077-419X..	
	C26	SHUTE, L.A. et al., "Curie-point Pyrolysis Mass Spectrometry Applied to Characterization and Identification of Selected Bacillus Species," J. General Micro., (JGMIAN) (1984), pp 343-355, 130(2).	
	C27	VIADYANATHAN, S., et al., "Flow-Injection Electrospray Ionization Mass Spectrometry of Crude Cell Extracts for High-Throughput Bacterial Identification," J. Am. Soc. Mass. Spectrom., (2002) pp 118-128, 13.	
	C28	WANG, Z., et al., "Mass Spectrometric Methods for Generation of Protein Mass Database Used for Bacterial Identification," Analytical Chem., (2002), pp 3174-3182, 74(13).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
--------------------	--	-----------------	--